

MODULAR HIGH DENSITY CONNECTOR

ABSTRACT OF THE DISCLOSURE

A connector includes sheet metal contacts (40, 42) with termination ends (60, 62) for terminating to wires and with mating ends (70, 72) for mating to other contact devices such as circuit board pads. Each terminating end includes a wide groove part (90) with a groove bottom (94) that receives the wire insulation and with a pair of wide groove part wings (96, 98) that are crimped around the insulation. Each termination end also includes a narrow groove part (100) for receiving a bared conductor of the wire, the narrow groove part having a bottom (104) that is offset from the wide groove part bottom (94), and the narrow groove part having a pair of narrow groove part wings (106, 108) that are crimped around the wire conductor. The mating end of each contact forms a resilient end beam (120) with a straight beam middle (124) that extends at an incline (B) away from the front face (22) of a connector frame (36), the end beam having an outer end (146) connected by an outer bend (152) to a beam free outer portion (150). The beam free outer portion extends at an angle (C) of less than 135° to the beam middle, as measured at the inside of the outer bend. A spherical bump (130) is formed at the outer end of the beam middle.